



1263.1793

PATENT APPLICATION

2171

#5  
8-29-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ALEXANDER RALPH LYONS ET AL.

Application No.: 09/718,405

Filed: November 24, 2000

For: IMAGE PROCESSING  
APPARATUS

Examiner: Not Yet Assigned

Group Art Unit: 2171

August 20, 2001

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AUG 27 2001

Commissioner for Patents  
Washington, D.C. 20231

Technology Center 2600

RECEIVED  
AUG 23 2001  
Technology Center 2100

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

The Examiner's attention is also directed to the following U.S. Applications:

<u>APPLICATION NO.</u>	<u>FILING DATE</u>	<u>GROUP ART UNIT</u>
09/718,342	11/24/00	2671
09/718,343	11/24/00	2622
09/718,413	11/24/00	2614
09/129,077	08/05/98	2621
09/129,079	08/05/98	2621
09/129,080	08/05/98	2785

A copy of each cited Application is enclosed.

CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

  
Attorney for Applicants

Registration No. 25,823

FITZPATRICK, CELLA, HARPER & SCINTO  
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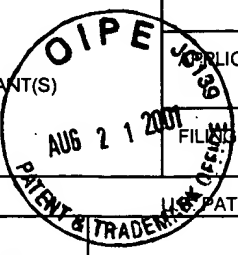
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FORM PTO 1449 (modified)		ATTY DOCKET NO. <b>1263.1793</b>		APPLICATION NO. <b>09/718,406</b>	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT <b>Alexander Ralph Lyons Et al. Technology Center 2600</b>			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE <b>November 24, 2000</b>		GROUP <b>Not Yet Known</b>	
U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
	<b>5,511,153</b>	<b>04/23/96</b>	<b>Azarbayejani et al.</b>	<b>395</b>	<b>119</b>
	<b>6,044,181</b>	<b>03/28/00</b>	<b>Szeliski et al.</b>	<b>382</b>	<b>284</b>
					<b>08/01/97</b>
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS
	<b>EP 0898245</b>	<b>02/24/99</b>	<b>EPO</b>	<b>G06T</b>	<b>7/00</b>
	<b>EP 0901105</b>	<b>03/10/99</b>	<b>EPO</b>	<b>G06T</b>	<b>7/00</b>
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)					
	"Epipolar Geometry in Stereo, Motion and object Recognition". by Xu and Zhang, Chapter 2, Kluwer Academic Press, ISBN 0792341996.				
	"Euclidean Reconstruction from Uncalibrated Views" by Hartley in Applications of Invariance in Computer Vision: Proceedings of Second Joint Euro-US Workshop, Chapter 5, Ponta del Gada, Azores, Portugal, Oct 1993, Springer-Verlag, ISBN 0387582401.				
	"Efficient Bundle Adjustment with Virtual Key Frames: A Hierarchical Approach to Multi-Frame Structure from Motion" by Shum et al in Proceedings of the 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Volume 2, pp. 538-543, ISBN 0769501494.				
	"Calibration of Image Sequences for Model Visualisation" by Broadhurst and Cipolla in Proceedings of the 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Volume 1, pp.100-105, ISBN 0769501494.				
	"Multi-View 3D Estimation and Applications to Match Move" by Sawhney et al in 1999 IEEE Workshop on Multi-View Modelling and Analysis of Visual Scenes, pp. 21-28, ISBN 0769501109.				
	"Calibrating and 3D Modelling with a Multi-Camera System" by Wiles and Davison in 1999 IEEE Workshop on Multi-View Modelling and Analysis of Visual Scenes, pp. 29-36, ISBN 0769501109.				
	"Adaptive Least Squares Correlation: A Powerful Image Matching Technique" by A. W. Gruen in Photogrammetry Remote Sensing and Cartography, 14(3), 1985 pp. 175-187.				
	"Computer and Robot Vision Volume 2", Section 13.4.15, by R. M. Haralick and L. G. Shapiro, Addison-Wesley Publishing Company, 1993, pp. 85-91, ISBN 0-201-56943-4 (v.2).				
	"Numerical Recipes in C", Chapter 15.5, pp. 681-688 by Press et al, Cambridge University Press, ISBN 0-521-43108-5.				
	"Closed Form Solution of Absolute Orientation Using Unit Quaternions" by Horn in Journal of Optical Soc. of America 4(4), pp. 629-649, April 1987.				
	"Shape and Motion from Image Streams under orthography: a Factorization Method" by Tomasi and Kande, IJCV 9:2, 137154 (1992), pp. 137-154				
EXAMINER			DATE CONSIDERED		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		<div style="float: right; text-align: right;"> <b>RECEIVED</b>  <b>AUG 27 2001</b>  <b>Technology Center 2600</b> </div>			
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	✓	"Computer and Robot Vision Volume 1", Section 8, by R. M. Haralick and L. G. Shapiro, Addison-Wesley Publishing Company, 1992, pp. 371-452, ISBN 0-201-10877-1 (v.I).			
	✓	"Rapid Octree Construction from Image Sequences" by R. Szeliski in CVGIP: Image Understanding, Volume 58, Number 2, July 1993, pp. 23-32.			
	✓	"Marching Cubes: A High Resolution 3D Surface Construction Algorithm" by W. E. Lorensen & H. E. Cline in Computer Graphics, SIGGRAPH 87 proceedings, 21; pp. 163-169, July 1987.			
	✓	"An Implicit Surface Polygonizer" by J. Bloomenthal in Graphics Gems IV, AP Professional, 1994, ISBN 0123361559, pp. 324-350.			
	✓	"Photorealistic Scene Reconstruction by Voxel Coloring" by Seitz and Dyer in Proc. Conf. Computer Vision and Pattern Recognition 1997, pp. 1067-1073.			
	✓	"Plenoptic Image Editing" by Seitz and Kutulakos in Proc. 6th International Conference on Computer Vision, pp. 17-24.			
	✓	"What Do N Photographs Tell Us About 3D Shape?" by Kutulakos and Seitz in University of Rochester Computer Sciences Technical Report 680, January 1998, pp. 1-8.			
	✓	"A Theory of Shape by Space Carving" by Kutulakos and Seitz in University of Rochester Computer Sciences Technical Report 692, May 1998, pp. 1-27.			
	✓	"Robust Video Mosaicing Through Topology Inference and Local to Global Alignment" by Sawhney et al in Proc. European Conference on Computer Vision, ECCV, Freiburg Germany vol 2, pp. 103-119, June 1998.			
	✓	"The Variable State Dimension Filter" by Philip McLauchlan.			
	✓	"Good Features to Track" by Shi and Tomasi in 1994 IEEE Conference on Computer Vision and Pattern Recognition pp. 593-600.			
	✓	"A Multiple-Baseline Stereo" by Okutomi and Kanade in IEEE Transactions on Pattern Analysis and Machine Intelligence, Volume 15, No 4, April 1993, pp. 353-363.			
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FOREIGN PATENT DOCUMENTS					
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)					
		"Systems and Experiment Paper: Construction of Panoramic Image Mosaics with Global and Local Alignment" by Shum and Szeliski in International Journal of Computer Vision 36(2), pp. 101-130 (2000).			
		"A unifying Framework for Structure and Motion Recovery from Image Sequences" by P.F. McLauchlan and D.W. Murray in Proc 5th International Conf. on Computer Vision, Boston, pp. 314-320, June 1995			
		"The Variable State Dimension Filter applied to Surface-Based Structure from Motion" by Philip F. McLauchlan, CVSSP Technical Report VSSP-TR-4/99, pp. 1-52			
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